Elcometer 5100 Payne Permeability Cups

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The Elcometer 5100 Payne Permeability Cups are made entirely from anodised aluminium and are used to determine the permeability of films of paints, varnish, plastic, cellophane, etc.

The water evaporates or is absorbed and, after a certain time, the weight change relative to the film thickness is calculated, indicating the degree of permeability or permeance.

Drying Time

When developing a coating process, it is important to know the exact time it takes for the coating to dry or cure. For multicoat paint systems, having knowledge of the drying time enables the operator to know when any subsequent layers can be applied.

There are many stages involved in the coating drying time. Once a coating has been applied, it levels off under gravity, and, as the coating begins to cure, a thin dry film appears on the surface. The coating then continues to dry until, finally, it is totally cured.

Can be used in accordance with:
ASTM D1653
ASTM E96
ISO 7783-1
ISO 7783-2

TECHNICAL SPECIFICATION					
Part Number	**Description**	**Area**		**Volume**	
		cm²	**inches²**	**cm³**	**inches³**
K0005100M201	Elcometer 5100/1 Payne Permeability Cup	10	1.55	15	0.91
K0005100M202	Elcometer 5100/2 Payne Permeability Cup	30	4.65	50	3.05
K0005100M203	Elcometer 5100/3 Payne Permeability Cup	30	4.65	75	4.58
Packing List	Elcometer 5100 Payne Permeability Cup, storage case and operating instructions				

ACCESSORIES	
Spare Rubber Seal for Elcometer 5100/1	KT005100P001
Spare Rubber Seal for Elcometer 5100/2	KT005100P002
Spare Rubber Seal for Elcometer 5100/3	KT005100P003

Related Products

Elcometer 7300

Elcometer 7300 High Precision Stopwatch
Measuring intervals: 1/100 second for 30 minutes and 1 second for 24 hours. Time/calendar display, 12/24 hour mode.